

JUN 3 1994

Docket Nos. 50-413, 50-414
License Nos. NPF-35, NPF-52

Duke Power Company
ATTN: Mr. D. L. Rehn
Site Vice President
Catawba Site
4800 Concord Road
York, SC 29745-9635

Gentlemen:

SUBJECT: SERVICE WATER SYSTEM OPERATIONAL PERFORMANCE INSPECTION
CATAWBA NUCLEAR PLANT REPORT NOS. 50-413/94-17 AND 50-414/94-17

This is to advise you of a special inspection initiative that is being performed at operating reactors. It will include an inspection at your Catawba site. The initiative is entitled the "Service Water System Operational Performance Inspection (SWSOPI)."

The purpose of the inspection is to systematically evaluate the performance of your service water system. Inclusive in the inspection, will be a comprehensive review of system design, maintenance, operation, and testing. The inspection will verify the status of your initiatives associated with Generic Letter 89-13, "Service Water System Problems Affecting Safety Related Equipment." In addition, the inspection will encompass an evaluation of your engineering and technical support activities as they relate to the service water system.

This is a team inspection with up to seven individuals expected to be involved: one team leader, and six subject matter experts. Somewhere during the last week in June, a large portion of the team members will visit your site to accomplish preliminary inspection activities. The entire team will be onsite the weeks of July 11 and July 24, 1994.

To improve the effectiveness of the inspection and lessen its impact upon your staff, there are a number of actions the team is requesting. First, since overview presentations have been an efficient means to communicate relevant information, informal presentations from your staff during the week of June 27, 1994, describing service water system design and operations, significant modifications since original licensing, actions in response to Generic Letter 89-13, and a history of system problems, are encouraged. Second, a tour/walkdown of the service water system during the week of July 11, 1994, by the cognizant system and design engineer, would be appreciated. Third, the team will be reviewing a large amount of records, procedures, and design documents. Therefore, a request for information is provided as an attachment to this letter. There are two categories of information. The first is information needed onsite beginning June 27, 1994. The second is information to be available and/or easily retrievable when the team is onsite beginning July 11, 1994.

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The team leader for this inspection will be Mr. W. G. Rogers from Region II. Mr. Rogers will contact members of your staff in the near future to discuss the details of the inspection.

If you have any questions in the interim regarding the inspection program, we will be pleased to discuss them with you.

Sincerely,

(Original signed by T. A. Peebles)

Thomas A. Peebles, Chief
Operations Branch
Division of Reactor Safety

Enclosure:
Request for Information

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Yes	No	COPY?	Yes	No	Yes	No

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ENCLOSURE

REQUEST FOR INFORMATION

Information Needed Onsite beginning the week of 27, 1994:

- . 2 copies of computerized machinery history of all service water components for past 4 years (If Available)
- . Safety classification data by equipment identification number used by personnel to classify maintenance work requests and parts for the service water system (Computerized If Available)
- . Matrix or comparison document between Technical Specification Surveillance Requirements and the implementing surveillance procedures
- . Date of last completed surveillance associated with the service water system. Include any EQ required surveillance (If Applicable). If any surveillance is overdue please indicate so.
- . Surveillance schedule and any planned maintenance for the timeframe of the inspection
- . Design specifications (Mechanical & Electrical) and design bases documents (exclude the FSAR) for service water. Include the seismic requirements under the mechanical portion.
- . Copy of most current inservice test program with any trend data associated with the service water pumps and valves
- . Copy of the most current service water operating procedure
- . 3 Copies of the P&IDs and the P&ID legend showing the service water system and any support systems
- . All correspondence associated with your response to Generic Letter 89-13 and an integrated list of all documents used to implement the actions discussed in the Generic Letter
- . Copy of all service water heat exchanger data sheets
- . Copy of calculations for service water flow balancing
- . Copy of calculations for sizing the heat exchangers
- . Copy of vendor technical manual for the service water pumps (Including pump curves), heat exchangers, traveling screens and strainers
- . Copy of Technical Specification Limiting Condition for Operation out of service logbook or equivalent for the service water system and its support systems during the last 4 years
- . Any NSS supplier or Architect Engineer requirements associated with the service water system

- . Copy of the service water system's single failure analysis
- . A Copy of schematics for all electrically powered valves in the service water system
- . Preventative maintenance program for service water system (A computerized list of the activities and their frequency of performance will suffice)
- . Any comprehensive engineering or operational reviews of service water

Information to be Onsite or Readily Retrievable beginning July 11, 1994:

- . Last 4 Years of service water valve and pump test results
- . Service water preoperational test results
- . 2 Copies of the P&IDs and P&ID legend showing the service water system and any support systems
- . Your plan for dealing with aquatic fouling (Clams, Mussels, etc.), microbiological attack, silting, corrosion and the results to date in all systems
- . Calibration data on service water system instruments
- . Most current inservice inspection results of piping and welds in the service water system
- . All service water heat exchanger test/performance results for last 5 Years
- . Copy of any other calculations associated with the mechanical/hydraulic response of the service water system not provided by June 27, 1994.
- . VOTES or MOVATS test results of any service water motor operated valves in the last 5 years
- . Technical Specifications
- . Copy of the operator rounds associated with the service water system (If such a document exists)
- . Copy of any audits and corrective action documents associated with Generic Letter 89-13 and the service water system
- . Last audit of the system engineer or technical support program and present status of corrective actions
- . Administrative procedures governing maintenance, post maintenance testing, conduct of operations and performing the engineering to support a facility modification

- . Copy of cross-sectional drawings of major equipment such as pumps, heat exchangers, etc.
- . Copy of all commitments and their current status related to the service water system in the commitment tracking system
- . All water hammer/surge pressure protection information or calculations
- . Copy of a listing of all service water modifications performed in last 4 years, presently in progress and projected to be performed by the end of the next refueling outage (For the future modifications only include those that are funded)
- . Service water system and ultimate heat sink training information for maintenance personnel, system engineer, I&C technicians (lessons plans, handout material, task performance measures, etc.)
- . Copy of maintenance backlog (corrective, preventative, planned, outage and non-outage) for service water and its support systems
- . Onsite review committee minutes for last 6 months & minutes of any meetings when service water modifications or performance were discussed in last 2 years
- . Offsite review committee minutes for last 12 months and any meetings when service water modifications/safety evaluations, QA audits or performance were discussed in last 2 years
- . Isometric drawings (including hanger locations) of the service water system
- . Hanger sketches for the service water system
- . Any inspection results or reports dealing with problems at the intake structure
- . Last 5 years of maintenance work requests, corrective and preventive, on the service water system
- . River temperature trends in the summer for last 2 years
- . Chemical analysis of river water for the last 4 years
- . Emergency diesel generator loading calculations
- . One-line electrical diagrams down to the 120 VAC level
- . Alarm response procedures associated with the service water system
- . Table of normal and abnormal environmental conditions associated with the rooms service water supplies

- . Copy of any temporary modifications installed on the service water system including the associated 10 CFR 50.59 evaluation
- . Copy of the operating crew's composition, schedule and length of service in the operations department